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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/996,202		11/28/2001	Chin-Ti Chen	08919-053001	1265
26161	7590	06/11/2003			
FISH & RI	CHARDS	SON PC	* EXAMINER		
225 FRANK BOSTON, N		0		THOMPSON, CAMIES	
				ART UNIT	PAPER NUMBER
				1774	6
				DATE MAILED: 06/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commons	09/996,202	CHEN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Camie S Thomps						
The MAILING DATE of this communication app Period for Reply	ears on the cover	sneet with the correspondence at	1aress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, hower within the statutory mini rill apply and will expire S cause the application to	ver, may a reply be timely filed mum of thirty (30) days will be considered time IX (6) MONTHS from the mailing date of this of become ABANDONED (35 U.S.C. § 133).	ily. :ommunication.				
Status							
 Responsive to communication(s) filed on This action is FINAL. 2b) ☐ This 	· is action is non-fir	and .					
,			he merite is				
3) Since this application is in condition for allowa closed in accordance with the practice under <i>b</i> Disposition of Claims			ie ments is				
4) Claim(s) 1-24 is/are pending in the application							
4a) Of the above claim(s) is/are withdraw	vn from considera	tion.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-11 and 15-20</u> is/are rejected.							
7) Claim(s) 12-14 and 21 is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requiren	nent.					
Application Papers							
9) The specification is objected to by the Examiner							
10)☐ The drawing(s) filed on is/are: a)☐ accep							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Exa	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
• • • •	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the prior action f	eau (PCT Rule 1	7.2(a)).	Stage				
14)⊠ Acknowledgment is made of a claim for domestic	priority under 35	U.S.C. § 119(e) (to a provisiona	l application).				
a) ☐ The translation of the foreign language pro-	• •						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) 🔲	Interview Summary (PTO-413) Paper No Notice of Informal Patent Application (PT Other:	• •				
0.00							

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DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hironaka et al., U.S. Patent Number 5,336,546.

Hironaka discloses an organic electroluminescence device wherein an oxadiazole compound is interposed between two electrodes as per instant claim 15 (see abstract). The reference also discloses that the EL device has a substrate, a hole-transporting layer, an emitting layer and an electron transporting layer that comprises an oxadiazole compound as per instant claim 15 (see column 5, lines 3-45). The reference discloses formula (I) listed below:

wherein Z^1 and Z^2 are each unsubstituted aromatic groups or an aromatic group having $C_{1.5}$ alkyl groups, $C_{1.5}$ alkyloxy groups, cyano groups, chlorines, bromines or fluorines; Y^1 and Y^2 are each unsubstituted aromatic groups or an aromatic group having $C_{1.5}$ alkyl groups: Q is oxygen, sulfur, methyl, ethyl or t-butyl groups; and X is oxygen or sulfur. When X is oxygen and Z is an unsubstituted aromatic ring, the formula found in column 22, lines 55-60 read on claims 1-3 and 7. The formula found in column 25, lines 5-10 read on claims 4-8. The reference reads on claims 10, 16-17 and 19 when X is oxygen and Z^1 and Z^2 are an aromatic group having $C_{1.5}$ alkyl groups. When X is oxygen and Z^1 and Z^2 is an aromatic group substituted with an alkyloxy group, the reference reads on instant claims 9 and 18. When X is oxygen and Z^1 and Z^2 are

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aromatic groups having fluorine, the reference reads on claims 11 and 20. The reference does not disclose that the oxadiazole compounds are tetramers as per instant claims 1 and 15. The reference does disclose that the oxadiazole compounds used are not limited. An oxadiazole compound is used to improve the luminous efficiency of the EL device. Therefore, it would have been obvious to one of ordinary skill in the art to use an oxidazole tetramer in order to have a light-emitting layer that has greater luminescence performance as shown by the Hironaka reference in column 7, lines 34-52.

4. Claims 12-14 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (703) 305-4488. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly, can be reached at (703) 308-0449. The fax phone numbers for the Group are (703) 872-9310 {before finals} and (703) 872-9311 {after finals}.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

CYNTHIA H. KELLY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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